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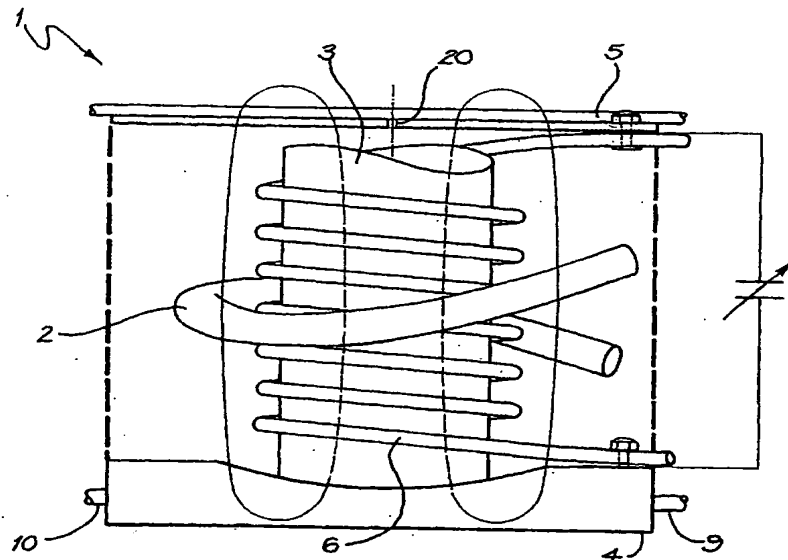
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(54) Title: METHOD AND APPARATUS FOR HEATING REFRACTORY OXIDES



(57) **Abstract:** A method of heating a refractory oxide material comprising applying a high frequency electric field to heat the refractory oxide material and applying a magnetic field to heat the refractory oxide material. The high frequency electric field substantially heating the refractory oxide material to a temperature range at which the refractory oxide material undergoes a transition in electrical resistivity from an insulator to a conductor. The magnetic field inductively heats the refractory oxide material during and/or after the transition.